

TEN CENTS

OWNER'S MANUAL

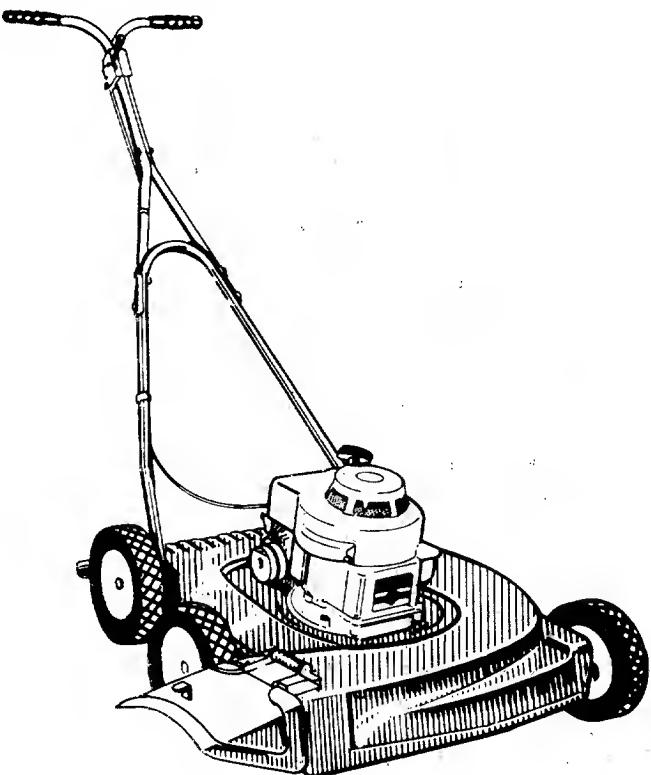
- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

Model Nos.
117-030A
117-030-300

Important:

Read Safety Rules and
Instructions Carefully

19"
ROTARY
MOWERS



→ I M P O R T A N T

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read the Operating and Service Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. Never attempt to make a wheel or cutting height adjustment while the engine is running.
7. Mow only in daylight or in good artificial light.
8. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Stop the blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug,

thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Do not run the engine indoors.
10. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
11. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
12. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
13. Never operate mower without proper guards, plates or other safety protective devices in place.
14. Keep washout ports and other mower-housing service openings closed when mowing.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.

ASSEMBLY

Your new mower is shipped completely assembled with the exception of the handle.

1. Remove lawn mower and all parts from carton. Make certain that all loose parts and literature are removed from carton before carton is discarded.
2. Extend throttle control assembly, which is attached to rear of mower and place on floor.



CAUTION

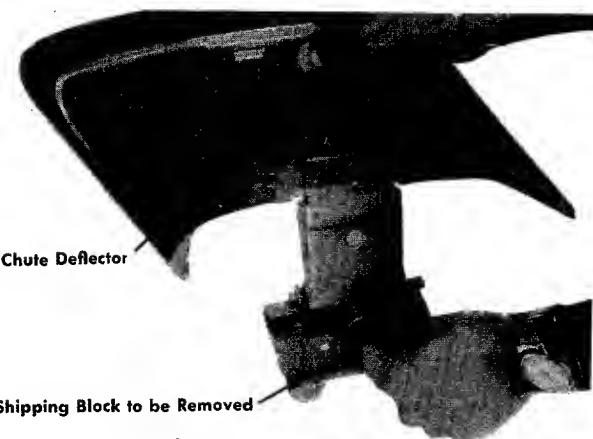
Do not bend or kink control wire.



NOTE

Some engines have manual friction control on the engine; these require no remote throttle control.

3. a. Snap lower handle into position on two lugs which extend from either side on the rear of the deck.
- b. Assemble the two upper handle parts with cap screws and locknuts provided in parts bag. The yellow cap screw should be used to attach throttle control assembly to upper handle as shown in diagram. Do not tighten nuts.
- c. Attach upper handle assembly to lower handle with cap screws and locknuts. Tighten all nuts.
- d. Secure control wire to lower handle with cable clips.
4. Check all nuts and bolts for correct tightness.
5. Slip hand grips on the upper end of each handle. They will slip on more easily if you first soak them in warm soapy water.



NOTE

It may be necessary to bend the ends of the lower handle inward slightly to assure a snug fit against the deck mounting area.

6. Place shoulder bolt (A) through wheel (B). See figure 1.
7. Place crown side of belleville washer (c) towards the wheel (away from deck). See figure 2.
8. Using a $\frac{3}{4}$ " wrench secure wheel to deck.

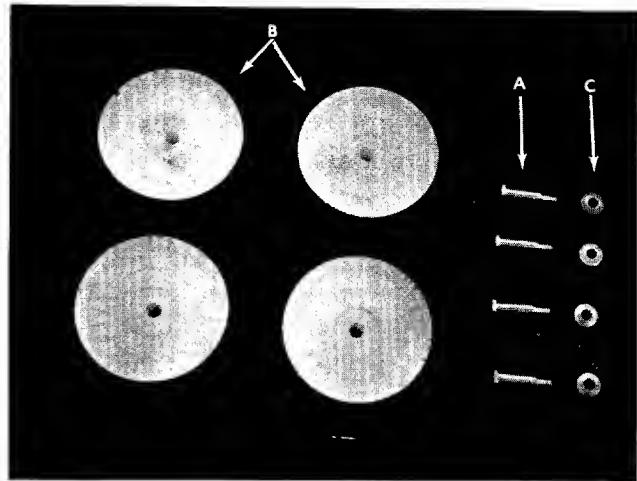


FIGURE 1



NOTE

Tighten shoulder bolt enough to slightly compress the belleville washer.

DO NOT COMPLETELY compress washer.

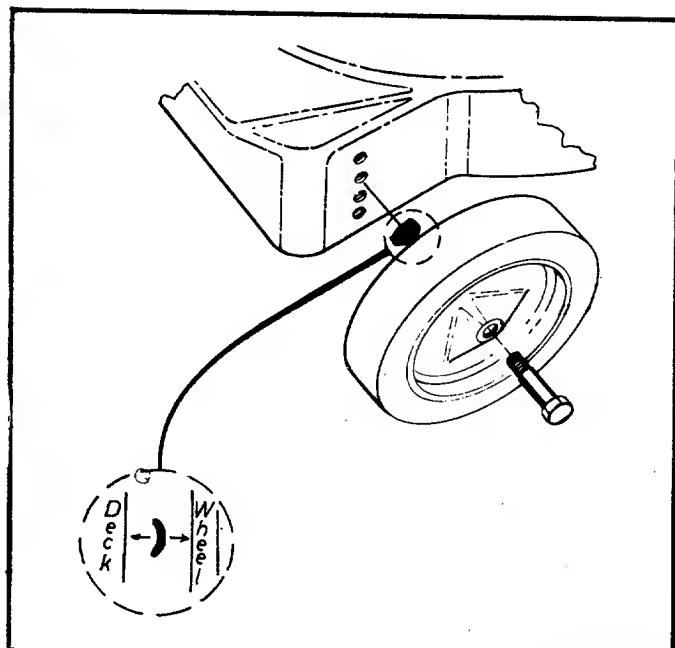


FIGURE 2



CAUTION

Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation.

OPERATION



NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results, raise the cutting position until it is determined which height is best for your lawn. See adjustments.

1. Service engine with gas and oil. See engine manual packed with lawn mower for complete instructions for the care and maintenance of engine. **READ DIRECTIONS CAREFULLY.**
2. When ready to start engine, place throttle control lever in "START" position and start engine in accordance with instructions in engine manual. After engine starts, move throttle control lever to desired engine speed. The engine is stopped by placing control lever in the "STOP" position.
3. Be sure that lawn is clear of stones, sticks, wire or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

ADJUSTMENTS



CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

STANDARD CUTTING HEIGHT

Adjustment may be made by removing and moving wheel studs to desired position. Cutting heights will be raised as wheel studs are moved to a lower hole and lowered as wheel studs are moved to a higher hole in the deck. All wheel studs must be mounted in a relative position to the deck.

REMOTE THROTTLE (OPTIONAL)

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
2. Move throttle control lever on handle to "FAST" position.
3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

LUBRICATION



IMPORTANT

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

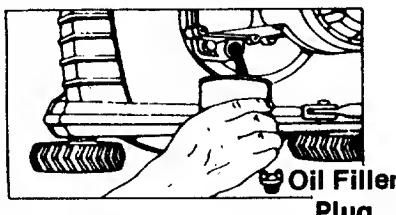
Wheels—Wheel bearings require no lubrication.

Throttle (Optional)—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (SAE No. 10 or 20) for ease of operation.

Protective Shield—The pivot points on the protective shield should be lubricated periodically with light oil to prevent any rust or binding up.

Always disconnect spark plug cable during repairs, refueling or changing oil. Engine oil may be drained through oil filler opening by tilting the mower on its side. Change oil after first 5 hours of operation while engine is warm. Thereafter, change oil every 25 hours of operation while engine is warm.

NOTE: FILL AND DRAIN OIL FROM OIL FILL PLUG.



Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding up. Deflector should work freely.

MAINTENANCE

Cutting Blade—The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lockwasher holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lockwashers and nuts holding blade to blade adapter (if necessary).

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower. Upon reassembly, make certain all parts are assembled properly and tightened securely.

NOTE

To insure safe operation of your unit, all nuts and bolts must be checked periodically for correct tightness.

Deck—The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



CAUTION

Do not direct the stream of water at a hot engine, as damage to the engine may result.

STORAGE

The following steps should be taken to prepare lawn mower for storage:

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Place blocks under deck to raise tires clear of floor.
5. Store mower in a dry, clean area.

USING YOUR ROTARY MOWER

For best results, do not cut wet grass because it tends to stick to underside of the mower thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing. The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

NOTE

The manufacturer DOES NOT recommend the use of any accessory on this Rotary Mower other than those manufactured by MTD Products Inc.

GRASS CATCHER Model No. 197-003A is available as optional equipment for the mowers shown in this manual.



WARNING

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.



NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0119.

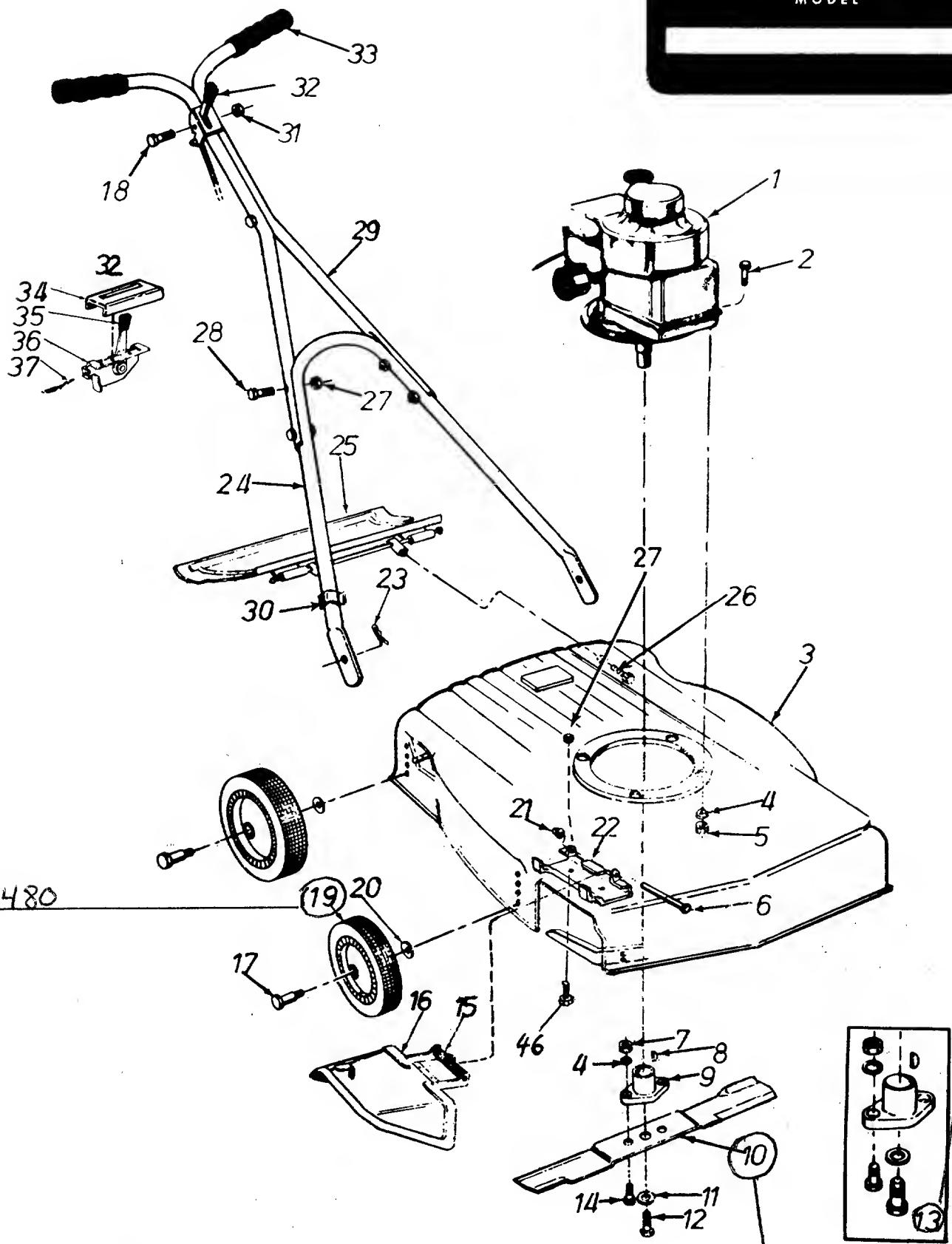


IMPORTANT

After striking a foreign object, stop the engine, remove wire from spark plug. Thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

117-030A

IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



PARTS LIST FOR MODEL 117-030A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine	
2	710-0158		Hex Hd. Cap Scr. 5/16-24 x 1 1/4" Lg.*	
3	11448 —452		Deck Ass'y.—Comp.	
4	736-0119		Spring L-Wash. 5/16" Scr.*	
5	712-0123		Hex Nut 5/16-24" Thd.*	
6	711-0555		Pivot Pin	
7	712-0123		Hex Nut 5/16-24 Thd.*	
8	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
9	10769		Blade Adapter Kit	
10	742-0122		Blade 19"	
11	736-0217		Spring L-Wash. 3/8" Scr. Heavy Duty	
12	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1 1/2" Lg.—Heat Treated	
13	10769		Blade Adapter Kit	
14	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1" Lg.—Heat Treated	
15	732-0253		Torsion Spring	
16	11680 —452		Chute Deflector Ass'y.	
17	738-0213		Axle Bolt	
18	710-0136		Hex Hd. Cap Scr. 1/4-20 x 1.75" Lg.*	
19	734-0480		Wheel Ass'y.—Comp.	
20	736-0105		Bell. Wash. 3/8" Scr.	
21	726-0106		Push-on Flange Palnut	
22	11130 —452		Adapter Plate	
23	714-0104		Hair Pin Cotter	
24	07039		Lower Handle	
25	11191 —452		Protective Shield Ass'y.— Comp.	
26	710-0567		Hex Hd. Cap Scr. 1/4-18 x .62" Lg.	
27	712-0107		Hex Cent. L-Nut 1/4-20 Thd.	
28	710-0106		Hex Hd. Cap Scr. 1/4-20 x 1 1/4" Lg.*	
29	09363		Upper Handle	
30	746-0145		Cable Clip	
31	712-0107		Hex Cent. L-Nut 1/4-20 Thd.	
32	11609		Throttle Control Ass'y.— Comp.	
33	07071		Grip	
34	731-0344		Throttle Control—Cover	
35	07470		Throttle Control—Knob	
36	11598		Throttle Control—Brkt. Ass'y.	
37	746-0229		Conduit and Wire	
46	710-0289		Hex Scr. 1/4-20 x .50" Lg.*	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(452—Radiant Tangerine) When ordering parts if color or finish is important, use color code shown at left. (e.g. Radiant Tangerine Finish—11907 (452).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	Rt. 4, Box 368 72117
	FORT SMITH
Mity Mite Motors, Inc.	2515 Towson Ave. 72901
CALIFORNIA	SAN BERNARDINO
Lawn Mower Supply Co.	25608 E. Baseline 92410
	SAN FRANCISCO
J.W. Jewett Co.	981 Folsom St. 94107
	SACRAMENTO
Lutting & Severson	2030 28th St. 95818
COLORADO	DENVER
South Denver Lawn Equip.	527 West Evans 80223
CONNECTICUT	SUFFIELD
The Jones & Ramsey Co.	850 Thompsonville Rd. 06078
FLORIDA	JACKSONVILLE
Radco Distributors	2403 Market St. 32206
	CORAL GABLES
Moz-All of Florida, Inc.	365 Greco Ave. 33146
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. ..46514
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy 52001
KANSAS	WICHITA
Hixon, Inc.	3030 Mascot 67204
LOUISIANA	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire Ave. 20012
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	MOUNT CLEMENS
Power Equipment Dist.	36463 South Gratiot... 48043
	LANSING
Lorenz Service Co.	2500 S. Pennsylvania.. 48900
MINNESOTA	MINNETONKA
Hance Distributing Inc.	11212 Wayzata Blvd. ..55343
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St. 39533
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry Rd. 63125
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619
	SYRACUSE
Kimber's, Inc.	115 N. Geddes St. 13204

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson —

NORTH CAROLINA	GREENSBORO
Dixie Sales Company	.....327 Battleground Ave.. 27402
	GOLDSBORO
Smith Hardware Co.	.....515 N. George St. 27530
OHIO	WADSWORTH
National Central	.....687 Seville Rd. 44281
	CLEVELAND
Bleckrie, Inc.	.....7900 Lorain Ave. 44102
	CARROL
Stebe's Mid-State Mower Supply	Box 366 43112
	WILLARD
Sunshine Wholesale Tire Outlet	Route 224 44890
	MANSFIELD
McClure Lawn & Garden Supply	1114 Lexington Ave. .. 44903
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	.....605 S. Cherokee 74401
	ADA
Ada Auto Supply	.....301 E. 12th St. 74820
OREGON	PORTLAND
Kenton Supply Co.	.....8216 N. Denver Ave. .. 97217
PENNSYLVANIA	LANCASTER
Raub Supply Co.	.....James & Mulberry Sts... 17604
	PITTSBURGH
Bluemont Co.	.....11125 Frankstown Rd.. 15235
TENNESSEE	KNOXVILLE
Master Repair Service	.....2423 Broadway, N.E. ..37917
	MEMPHIS
Memphis Cycle & Supply Co.	.... 421 Monroe Ave. 38103
	American Sales & Service, Inc.. 1922 Lynnbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	.....423 E. Jefferson 75203
	HOUSTON
Bullard Supply Co.	.....2409 Commerce St. 77003
	SAN ANTONIO
Catto & Putty, Inc.	.....P.O. Box 2408 .....78206
	FORT WORTH
Woodson Sales Corp.	.....1702 N. Sylvania 76111
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co.	.....437 E. 9th St. 84111
VERMONT	BURLINGTON
Vermont Appliance Co.	.....44 Lakeside Ave. ....05401
VIRGINIA	RICHMOND
RBI Corp.	.....963 Myers St. 23260
WASHINGTON	SEATTLE
Bailey's Rebuild, Inc.	.....1325 E. Madisan St. ...98102
WEST VIRGINIA	CHARLESTON
Young's, Inc.	.....233 Virginia St., E. ... 25301
WISCONSIN	APPLETON
Automative Supply Co.	.....123 S. Linwood Ave. ..54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.